

# SRINIJA KATAKAM

1001861512

## Assignment- 05

<http://adbassignment5-env.eba-tjbn9azv.us-east-2.elasticbeanstalk.com/>

### application.py

```
import os
from flask import Flask, render_template, request, url_for

application = Flask(__name__)

base_dir = os.path.abspath(os.path.dirname(__file__))
wordsfile1 = os.path.join(base_dir, 'static/AliceCleaneredit.txt')
wordsfile2 = os.path.join(base_dir, 'static/AliceInWonderlandedit.txt')
wordsfile3 = os.path.join(base_dir, 'static/CandideEnedit.txt')
wordsfile4 = os.path.join(base_dir, 'static/CandideFredit.txt')

@app.application.route('/', methods=['GET', 'POST'])
def index():
    return render_template('index.html')

@app.application.route('/wordsfile', methods=['GET', 'POST'])
def words_file():
    wordsin1 = []
    wordsin2 = []
    wordsin3 = []
    wordsin4 = []
    files = []
    word1 = []
    word2 = []
    word3 = []
    word4 = []
```

```

if request.method == 'POST':
    word_to_search = request.form.get('search_word')

    with open(wordsfile1, 'rb') as fileinput:
        for line in fileinput:
            for words in line.split():
                wordsin1.append(str(words))
    for values in wordsin1:
        word1.append(values[2:-1])

    if word_to_search in word1:
        movie_title1 = "AliceCleaneredit.txt"
        files.append(movie_title1)

    with open(wordsfile2, 'rb') as fileinput:
        for line in fileinput:
            for words in line.split():
                wordsin2.append(str(words))

    for values in wordsin2:
        word2.append(values[2:-1])

    if word_to_search in word2:
        movie_title2 = "AliceInWonderlandedit.txt"
        files.append(movie_title2)

    with open(wordsfile3, 'rb') as fileinput:
        for line in fileinput:
            for words in line.split():
                wordsin3.append(str(words))

    for values in wordsin3:
        word3.append(values[2:-1])
    if word_to_search in word3:
        movie_title3 = "CandideEnedit.txt"
        files.append(movie_title3)

    with open(wordsfile4, 'rb') as fileinput:
        for line in fileinput:
            for words in line.split():
                wordsin4.append(str(words))

    for values in wordsin4:
        word4.append(values[2:-1])

```

```

        if word_to_search in word4:
            movie_title4 = "CandideFredit.txt"
            files.append(movie_title4)

    return render_template("words_search.html", file = files)

if __name__ == '__main__':
    application.run()

@app.route('/cleanFile', methods=['GET', 'POST'])
def clean_file():
    stopWordshere = []
    files = ['static/AliceCleaner.txt', 'static/AliceInWonderland.txt', 'static/CandideFr.txt', 'static/DonQuijote.txt', 'static/Shakespeare.txt', 'static/CandideEn.txt']
    with open('static/stopwords.txt', 'rb') as fileinput:
        for line in fileinput:
            for words in line.split():
                stopWordshere.append(str(words)[2:-1])

    for filename in files:
        word = []
        with open(filename, 'r', encoding="utf-8-sig") as fileinput:
            for line in fileinput:
                for words in line.split():
                    word.append(words.lower())

        text = " ".join(word)
        cleaned_text = []
        text_tokens = text
        print(text_tokens)
        for word in text_tokens.split():
            if word not in stopWordshere:
                cleaned_text.append(word)

        cleaned_text = ''.join(c for c in s if c not in string.punctuation) for
s in cleaned_text]
        cleaned_text = list(filter(None, cleaned_text))
        cleaned_text = ' '.join(cleaned_text)
        data = filename[:-4] + "edit.txt"
        with open(data, "w") as output:
            output.write(str(cleaned_text))

```

```
return render_template('clean_data.html')
```

```
<!DOCTYPE html>
<html>
<head>
    <style>
        h1 {
            border-style: double;
        }

        div {
            border-style: double;
        }
        p {
            border-style: ridge;
        }
    </style>
    <title>Assignment 5</title>
</head>
<body>
<div style="text-align: center">
    <h1>Srinija Katakam</h1>
    <h3>1001861512</h3>
</div>
<div>
    <p>
        Cleaning is done.
    </p>
</div>
</body>
</html>
```

**index.html:** <!DOCTYPE html>

```
<html>
<head>
    <style>
        h1 {
            background-color: aqua;
            border-style: double;
        }
        h3 {
```

```

        background-color: aqua;

        border-style: ridge;
    }
    div {
        border-style: double;
    }
    p {
        border-style: ridge;
    }
</style>
<title>Assignment 5</title>
</head>
<body>
<div style="text-align: center">
    <h1>Srinija Katakam</h1>
    <h3>1001861512</h3>
</div>
<div>
    <form action="{{url_for('words_file')}}" enctype=multipart/form-
data method="POST" style="width:30%;">
        <label for="search_word">Enter a word to search in books</label>
        <input type="text" id="search_word" name="search_word">
        <a href="/wordsfile"><input type="submit" value="Find"></a>
    </form>
</div>
</body>
    <form action="{{url_for('clean_file')}}" enctype=multipart/form-
data method="POST" style="width:30%;">
        <p>
            Clean files to remove punctuation, remove stop words and to lower case let
ters
        </p>
        <a href="/cleanFile"><input type="submit" value="Clean Files"></a>
    </form>

</html>

```

#### words\_search.html

```

<!DOCTYPE html>
<html>
<head>

```

```

<style>
    h1 {
        border-style: double;
    }

    div {
        border-style: double;
    }
    p {
        border-style: ridge;
    }
</style>
<title>Assignment 5</title>
</head>
<body>
<div style="text-align: center">
    <h1>Srinija Katakam</h1>
    <h3>1001861512</h3>
</div>
<div>
    <p>
        <h3>
            The given word is found in: <br><br>
            {% for values in file %}
                {{values}}<br><br>
            {% endfor %}
        </h3>
    </p>
</div>
</body>
</html>

```

## Requirements.txt

Flask==1.1.2

## References:

